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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named  
Inventor : Huang et al.

Appln. No. : 10/636,176

Filed : August 7, 2003

For : METHOD AND APPARATUS FOR  
MULTI-SENSORY SPEECH  
ENHANCEMENT

Group Art Unit: 2643

Examiner: ---

Docket No.: M61.12-0516

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

I HEREBY CERTIFY THAT THIS PAPER IS  
BEING SENT BY U.S. MAIL, FIRST CLASS,  
TO THE COMMISSIONER FOR PATENTS,  
P.O. BOX 1450, ALEXANDRIA, VA 22313-  
1450, THIS

24<sup>th</sup>  
2006

DAY OF

PATENT ATTORNEY

Sir:

The patents or publications listed on the enclosed PTO Form-1449 are submitted pursuant to 37 C.F.R. § 1.97. Copies of the patents or publications cited are enclosed, except as waived by the Official Gazette notice of August 5, 2003 regarding copies of U.S. Patents and Published Applications.

**LIST REFERENCES NOT SUBMITTED**

**TIME OF FILING**

The information disclosure statement is being filed:

1. ☒ 1. Within three month of the filing date of a  
national application other that a Continued  
Prosecution Application (CPA);
2. Within three months of the date of entry of the National Stage international  
application;
3. Before the mailing date of a first Office Action on the merits; or
4. Before the mailing of a first Office Action after the filing of a Request for

Continue Examination (RCE).

2. — after the time period specified in paragraph 1 above, but before the mailing date of a final action under 37 C.F.R. § 1.113 or notice of allowance under 37 C.F.R. § 1.311.

Therefore, in accordance with 37 C.F.R. § 1.97(c), submitted herewith is:

(check either A or B below)

- A. — a statement as specified in 37 C.F.R. § 1.97(e).  
B. — the fee set forth in 37 C.F.R. § 1.17(p) for submission of an information disclosure statement under 37 C.F.R. § 1.97(c).

3. — after the mailing date of either a final action under 37 C.F.R. § 1.113 or a notice of allowance under 37 C.F.R. § 1.311, whichever occurs first, but before payment of the issue fee. Therefore, Applicant petitions for consideration and submits herewith:

- A. a statement as specified in 37 C.F.R. § 1.97(e);  
B. the petition fee set forth in 37 C.F.R. § 1.17(p).

**STATEMENT**

(only used if No. 2(A) or No. 3 above is checked)

The person(s) signing below certify

(check appropriate paragraph)

- that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement. 37 C.F.R. § 1.97(e)(1).

OR

- that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months

prior to the filing of this statement. 37 C.F.R. § 1.97(e)(2).

**METHOD OF PAYMENT**

- ☒ No fee is required.  
☐ Attached is a check in the amount of \$\_\_\_\_\_.

The Director is authorized to charge any fee deficiency required by this paper or credit any overpayment to Deposit Account No. 23-1123. A duplicate copy of this communication is enclosed.

Respectfully submitted,

WESTMAN, CHAMPLIN & KELLY, P.A.

By. 

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PTO-1449	Atty. Docket No.: M61.12-0516	Appl. No.: 10/636,176
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	First Named Inventor:	
	Huang et al.	
	Filing Date	Group Art:
	August 7, 2003	2643

## U.S. PATENT DOCUMENTS

Examiner Initial	Document No.	Date	Name	Class	Sub Class	Filing Date If Appropriate
AA	10/636,176	08/07/03	Huang et al.			
AB	6,339,706	01/2002	Tillgren et al.	455	419	
AC	2004/0092297	05/13/04	Huang			
AD	2002/075306	06/20/02	Thompson et al.			
AE	2002/181669	12/05/02	Takatori et al.			
AF	2002/196955	12/26/02	Boesen			
AG	2002/057810	05/16/02	Boesen			
AH	2006/0009156	01/2006	Hayes et al.	455	063.1	
AI	2006/0008256	01/2006	Khedouri et al.	386	124	
AJ	2005/0114124	05/26/05	Liu et al.	434	185	

## FOREIGN PATENT DOCUMENTS

	Document No.	Date	Country	Class	Sub Class	Translation Yes No
AK	EP 1 569 422	31.08.05	EP			X
AL	DE 199 17 169	02.11.00	Germany			X
AM	EP 1 333 650	06.08.03	EP			X

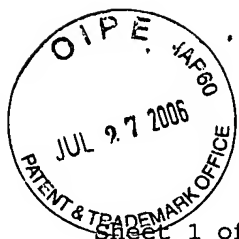
## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AN	Bakar, "The Insight of Wireless Communication," Research and Development, 2002, Student Conference on July 16-17, 2002.
AO	P. Heracleous, Y. Nakajima, A. Lee, H. Saruwatari, K. Shikano, "Accurate Hidden Markov Models for Non-Audible Murmur (NAM) Recognition Based on Iterative Supervised Adaptation," ASRU 2003, St. Thomas, U.S. Virgin Islands, Nov. 20-Dec. 4, 2003.
AP	Copy of European Search Report from Application No. 05107921.8, filed August 30, 2005.

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



FORM PTO-1449	Atty. Docket No.: M61.12-0516	Appl. No.: 10/636,176
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FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub Class	Translation Yes No
	BA	JP2001245397	28.02.00	Japan			Abstract Only
	BB	JP2001119797	15.10.99	Japan			Abstract Only
	BC	2 390 264	31.12.03	UK			
	BD	2 375 276	06.11.02	UK			
	BE	WO 02/098169 A1	12/05/02	WO			

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	BF	Copy of European Search Report from Application No: 05108871.4, filed September 26, 2005.
	BG	<a href="http://www.snaptrack.com/">http://www.snaptrack.com/</a> (2004)
	BH	<a href="http://www.misumi.com.tw/PLIST.ASP?PC.ID:21">http://www.misumi.com.tw/PLIST.ASP?PC.ID:21</a> (2004)
	BI	<a href="http://www.wherifywireless.com/univLoc.asp">http://www.wherifywireless.com/univLoc.asp</a> (2001)
	BJ	<a href="http://www.wherifywireless.com/prod.watches.htm">http://www.wherifywireless.com/prod.watches.htm</a> (2001)
	BK	Microsoft Office, Live Communications Server 2003, Microsoft Corporation, pp. 1-10, 2003.
	BL	Shoshana Berger, <a href="http://www.cnn.com/technology">http://www.cnn.com/technology</a> , "Wireless, wearable, and wondrous tech," 1/17/03.
	BM	<a href="http://www.3G.co.uk">http://www.3G.co.uk</a> , "NTT DoCoMo to Introduce First Wireless GPS Handset," 03/27/03.
	BN	"Physiological Monitoring System 'Lifeguard' System Specifications," Stanford University Medical Center, National Biocomputation Center, 11/8/02.
	BO	Nagl, L., "Wearable Sensor System for Wireless State-of-Health Determination in Cattle," Annual International Conference of the Institute of Electrical and Electronics Engineers' Engineering in Medicine and Biology Society, 2003.
	BP	Asada, H. and Barbagelata, M., "Wireless Fingernail Sensor for Continuous Long Term Health Monitoring," MIT Home Automation and Healthcare Consortium, Phase 3, Progress Report No.3-1, April 2001.
	BQ	Kumar, V., "The Design and Testing of a Personal Health System to Motivate Adherence to Intensive Diabetes Management," Harvard-MIT Division of Health Sciences and Technology, pp. 1-66, 2004.

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